

THE **NEW** **YORK** **PUBLIC** **LIBRARY** **ALEXANDER** **HUTCHINSON** **MUSEUM**

| | |
|--|----------------|
| gggtgttgta gatatttttc ctttggaaga aatactgagc accaaggctg ag atg aca | 58 |
| | <u>Met Thr</u> |
| | 1 |
| ctg aag tat tta tgg ctg gtg gcc ctc gtg gct cta tac att tca ccc | 106 |
| <u>Leu Lys Tyr Leu Trp Leu Val Ala Leu Val Ala Leu Tyr Ile Ser Pro</u> | |
| 5 10 15 | |
| atc cag tct cag aac tgt gtg tat ctg gat cat acc atc ttg gaa aac | 154 |
| <u>Ile Gln Ser Gln Asn Cys Val Tyr Leu Asp His Thr Ile Leu Glu Asn</u> | |
| 20 25 30 | |
| atg aaa ctt ctg agc agc atc agg acc acc ttt ccc tta aga tgt cta | 202 |
| <u>Met Lys Leu Leu Ser Ser Ile Arg Thr Thr Phe Pro Leu Arg Cys Leu</u> | |
| 35 40 45 50 | |
| aaa gat atc acg gat ttt gag ttt cct caa gag att ctg ctg tac gtc | 250 |
| <u>Lys Asp Ile Thr Asp Phe Glu Phe Pro Gln Glu Ile Leu Leu Tyr Val</u> | |
| 55 60 65 | |
| cag cat gtg aaa aag gac ata aag gca gtc acc tat cat ata tct tct | 298 |
| <u>Gln His Val Lys Lys Asp Ile Lys Ala Val Thr Tyr His Ile Ser Ser</u> | |
| 70 75 80 | |
| ctg gcg cta att att ttc agt ctt aaa gac tcc atc tcc ctg gcg aca | 346 |
| <u>Leu Ala Leu Ile Ile Phe Ser Leu Lys Asp Ser Ile Ser Leu Ala Thr</u> | |
| 85 90 95 | |
| gag gaa cgc ttg gaa cgt atc aga tcg gga ctt ttc aaa caa gtg cag | 394 |
| <u>Glu Glu Arg Leu Glu Arg Ile Arg Ser Gly Leu Phe Lys Gln Val Gln</u> | |
| 100 105 110 | |
| caa gct cga gag tgc atg gta gac gag gag aac aag aac acg gag gag | 442 |
| <u>Gln Ala Arg Glu Cys Met Val Asp Glu Glu Asn Lys Asn Thr Glu Glu</u> | |
| 115 120 125 130 | |
| gac agt aca tca caa cat cct cac tca gag ggc ttc aag gca gtc tac | 490 |
| <u>Asp Ser Thr Ser Gln His Pro His Ser Glu Gly Phe Lys Ala Val Tyr</u> | |
| 135 140 145 | |
| ctg gaa ttg aac aag tat ttc ttc aga atc aga aag ttc ctg gta aat | 538 |
| <u>Leu Glu Leu Asn Lys Tyr Phe Phe Arg Ile Arg Lys Phe Leu Val Asn</u> | |
| 150 155 160 | |
| aag aaa tac agt ttc tgt gcc tgg aag att gtc gtg gtg gaa ata aga | 586 |
| <u>Lys Lys Tyr Ser Phe Cys Ala Trp Lys Ile Val Val Val Glu Ile Arg</u> | |
| 165 170 175 | |
| aga tgt ttc agt ata ttt tac aaa cta ctc aac atg aat tgagaatcat | 635 |
| <u>Arg Cys Phe Ser Ile Phe Tyr Lys Leu Leu Asn Met Asn</u> | |
| 180 185 190 | |
| ccagcttcaa qcaagaactt agatagaagt tgtgactgct caaatgtccc caagaacgct | 695 |

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DISCUSSION

| | |
|--|-----------------------------|
| aagcttaatt taacaaaatt ggaaaaaacct aaactatact gtgctctggt gacctagcaa | 60 |
| tcaataatc acagtcattt ggtcaatgtc tatgattaac tcaatgagac aggatgtttg | 120 |
| gctatagcac caggtagaaa aaatatattt tcatgaagga tcaactccctc ttatgtaata | 180 |
| gatttggggtg agtgagtgtg tgagtgtgtg catggactca cagcttttgg ctttctgaaa | 240 |
| taccctgcac cagtcttgtt atgatgatcc cttagtgtcg ggatggatca tccaggcatt | 300 |
| taaggtaaca cgatggtaat tctttgtcca tttttcaggg aaaaaaaaaa gttatcactt | 360 |
| ccaaagtcgg catagtcacc cgaagtaaaa aaaaaaaaaa aaaaaaaag cctcagaggc | 420 |
| aaaggaaagg ggccgcaacc ttggttaact gtgaaatgac gaatgagaaa actcctcctg | 480 |
| ctgaagatat tcaggtatat aaaggcacat gaaggaaaac tcaaaacatc attgtcatat | 540 |
| acacatcttc tggatttttt agcttgcaaa aaaa atg agc acc aaa cct gat atg | 595 |
| | Met Ser Thr Lys Pro Asp Met |
| | 1 5 |
| att caa aag tgt ttg tgg ctt gag atc ctt atg ggt ata ttc att gct | 643 |
| Ile Gln Lys Cys Leu Trp Leu Glu Ile Leu Met Gly Ile Phe Ile Ala | |
| 10 15 20 | |
| ggc acc cta tcc ctg gac tgt aac tta ctg aac gtt cac ctg aga aga | 691 |
| Gly Thr Leu Ser Leu Asp Cys Asn Leu Leu Asn Val His Leu Arg Arg | |
| 25 30 35 | |
| gtc acc tgg caa aat ctg aga cat ctg agt agt atg agc aat tca ttt | 739 |
| Val Thr Trp Gln Asn Leu Arg His Leu Ser Ser Met Ser Asn Ser Phe | |
| 40 45 50 55 | |
| cct gta gaa tgt cta cga gaa aac ata gct ttt gag ttg ccc caa gag | 787 |
| Pro Val Glu Cys Leu Arg Glu Asn Ile Ala Phe Glu Leu Pro Gln Glu | |
| 60 65 70 | |
| ttt ctg caa tac acc caa cct atg aag agg gac atc aag aag gcc ttc | 835 |
| Phe Leu Gln Tyr Thr Gln Pro Met Lys Arg Asp Ile Lys Lys Ala Phe | |
| 75 80 85 | |
| tat gaa atg tcc cta cag gcc ttc aac atc ttc agc caa cac acc ttc | 883 |
| Tyr Glu Met Ser Leu Gln Ala Phe Asn Ile Phe Ser Gln His Thr Phe | |
| 90 95 100 | |
| aaa tat tgg aaa gag aga cac ctc aaa caa atc caa ata gga ctt gat | 931 |
| Lys Tyr Trp Lys Glu Arg His Leu Lys Gln Ile Gln Ile Gly Leu Asp | |
| 105 110 115 | |
| cag caa gca gag tac ctg aac caa tgc ttg gag gaa gac gag aat gaa | 979 |
| Gln Gln Ala Glu Tyr Leu Asn Gln Cys Leu Glu Glu Asp Glu Asn Glu | |
| 120 125 130 135 | |

FIG. 2B

aat gaa gac atg aaa gaa atg aaa gag aat gag atg aaa ccc tca gaa 1027
Asn Glu Asp Met Lys Glu Met Lys Glu Asn Glu Met Lys Pro Ser Glu
140 145 150

gcc agg gtc ccc cag ctg agc agc ctg gaa ctg agg aga tat ttc cac 1075
Ala Arg Val Pro Gln Leu Ser Ser Leu Glu Leu Arg Arg Tyr Phe His
155 160 165

agg ata gac aat ttc ctg aaa gaa aag aaa tac agt gac tgt gcc tgg 1123
Arg Ile Asp Asn Phe Leu Lys Glu Lys Lys Tyr Ser Asp Cys Ala Trp
170 175 180

gag att gtc cga gtg gaa atc aga aga tgt ttg tat tac ttt tac aaa 1171
Glu Ile Val Arg Val Glu Ile Arg Arg Cys Leu Tyr Tyr Phe Tyr Lys
185 190 195

ttt aca gct cta ttc agg agg aaa taaggatat ttttgaatt aaaattcctt 1225
Phe Thr Ala Leu Phe Arg Arg Lys
200 205

ttccctccga aatctctttc tcttctcct cctccatctt ctttttaagg attgttgtgc 1285
tgtcctgtaa gcctgtcctc agttggactg gtagcctcgg aacatcaggg acactcacct 1345
ctctaaggag aggtaatgcc aaccatcctc agggtgacca agagtctcct tagaaagtct 1405
ttaagacatt tttaaaggaa taagattccc tctccgtctt cttctattct ctcttgctct 1465
tttctgtggc cattttgaaa gagctttgct atatatacca cctgtggact tcaccaagac 1525
aatggctaga ggatagggag cagagaatgt tgcaaaatgg taacatttca atgacttaac 1585
tgttttgctg ccaaggttgc ttatcctatg aaaattcagc acattaagag agcttatata 1645
tgctccctag agtcaatact cttgcatttt cccctcctg ctcgggggga aaaagggtga 1705
catttctggc ccatttcctt ctgagcttg tttgtttgaa ttgatgcttg tggaatggta 1765
tttcattact ttaagagtga agatccatag tgaaattgga tggatggttg aattagacga 1825
ccattaagct t 1836

1027
1075
1123
1171
1225
1285
1345
1405
1465
1525
1585
1645
1705
1765
1825
1836

FIG. 3

| | | | |
|---------|------------|------------|-----------------------------------|
| | 1 | | 50 |
| huIFN-L | MSTKPDMIQK | CLWLEILMGI | FIAGTSLSDC NLLNVHLRRV TWQNLRLHLS |
| raIFN-L | ~~~~~MTLK | YLWLVALVAL | YISPIQSQNCVYLDHT ILENMKLLSS |
| huIFN-β | ~~~~~MTNK | CLLQIALLLC | FSTTALSMSY NLLGFLQRSS NFQCQKLLWQ |
| cons | -----MT-K | CLWL-AL--- | FI---LS--C NLL-V-LR-- --QN-KLLSS |
| | 51 | | 100 |
| huIFN-L | MSNSFPVECL | RENIAFELPQ | EFLQYTQPMK RDIKKAFYEM SLQAFNIFS. |
| raIFN-L | IRTTFPLRCL | KDITDFEFPQ | EILLYVQHVK KDIKAVTYHI SSLALIIFSL |
| huIFN-β | LNGRLEY.CL | KDRMNFDIPE | EIKQLQQFQK EDAALTIYEM LQNIFAIFRQ |
| cons | ----FP--CL | KD---FE-PQ | EILQY-Q--K -DIK---YEM S--AF-IFS- |
| | 101 | | 150 |
| huIFN-L | QHTFKYWKER | HLKQIQIGLD | QQAAYLNQCL EEDENENEDM KEMKENEMKP |
| raIFN-L | KDSISLATEE | RLERIRSGLF | KQVQQARECM VDEENKNT. .EDSTSQHPPH |
| huIFN-β | DSSSTGWNET | IVENLLANVY | HQINHLKTVL .EEKLEKEDF TRGK..... |
| cons | --S---W-E- | -LE-I--GL- | -Q---L--CL -EENENED- -E-K----- |
| | 151 | | 200 |
| huIFN-L | SEARVPQLSS | LELRRYFHRI | DNFLKEKKYS DCAWEIVRVE IRRCLYYFYK |
| raIFN-L | SEGF..KAVY | LELNKYFFRI | RKFLVNKKYS FCAWKIVVVE IRRCFYSIFYK |
| huIFN-β |LMSS | LHLKRYYGRI | LHYLKAKEYS HCAWTIVRVE ILRNFYFINR |
| cons | SE-----SS | LEL-RYF-RI | --FLK-KKYS -CAW-IVRVE IRRCFY-FYK |
| | 201 | | |
| huIFN-L | FTALFRRK | | |
| raIFN-L | LLNMN~~~ | | |
| huIFN-β | LTGYLRN~ | | |
| cons | LT---R-- | | |

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| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|-----|-----|
| cat | atg | tgt | gta | tat | ctc | gat | cat | act | atc | ttg | gag | aat | atg | aaa | ctt | 48 |
| Met | Cys | Val | Tyr | Leu | Asp | His | Thr | Ile | Leu | Glu | Asn | Met | Lys | Leu | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| ctg | agc | agc | atc | cgt | acc | acc | ttt | cct | ctg | cgt | tgt | ctg | aaa | gat | atc | 96 |
| Leu | Ser | Ser | Ile | Arg | Thr | Thr | Phe | Pro | Leu | Arg | Cys | Leu | Lys | Asp | Ile | |
| | | | 20 | | | | | 25 | | | | | | 30 | | |
| acg | gat | ttt | gag | ttt | cct | caa | gag | att | ctg | ctg | tac | gtc | cag | cat | gtg | 144 |
| Thr | Asp | Phe | Glu | Phe | Pro | Gln | Glu | Ile | Leu | Leu | Tyr | Val | Gln | His | Val | |
| | | | 35 | | | | | 40 | | | | | 45 | | | |
| aaa | aag | gac | ata | aag | gca | gtc | acc | tat | cat | ata | tct | tct | ctg | gcg | cta | 192 |
| Lys | Lys | Asp | Ile | Lys | Ala | Val | Thr | Tyr | His | Ile | Ser | Ser | Leu | Ala | Leu | |
| | | 50 | | | | | 55 | | | | | 60 | | | | |
| att | att | ttc | agt | ctt | aaa | gac | tcc | atc | tcc | ctg | gcg | aca | gag | gaa | cgc | 240 |
| Ile | Ile | Phe | Ser | Leu | Lys | Asp | Ser | Ile | Ser | Leu | Ala | Thr | Glu | Glu | Arg | |
| | 65 | | | | | 70 | | | | | 75 | | | | | |
| ttg | gaa | cgt | atc | aga | tcg | gga | ctt | ttc | aaa | caa | gtg | cag | caa | gct | cga | 288 |
| Leu | Glu | Arg | Ile | Arg | Ser | Gly | Leu | Phe | Lys | Gln | Val | Gln | Gln | Ala | Arg | |
| 80 | | | | | 85 | | | | | 90 | | | | | 95 | |
| gag | tgc | atg | gta | gac | gag | gag | aac | aag | aac | acg | gag | gag | gac | agt | aca | 336 |
| Glu | Cys | Met | Val | Asp | Glu | Glu | Asn | Lys | Asn | Thr | Glu | Glu | Asp | Ser | Thr | |
| | | | 100 | | | | | | 105 | | | | | 110 | | |
| tca | caa | cat | cct | cac | tca | gag | ggc | ttc | aag | gca | gtc | tac | ctg | gaa | ttg | 384 |
| Ser | Gln | His | Pro | His | Ser | Glu | Gly | Phe | Lys | Ala | Val | Tyr | Leu | Glu | Leu | |
| | | | 115 | | | | | 120 | | | | | 125 | | | |
| aac | aag | tat | ttc | ttc | aga | atc | aga | aag | ttc | ctg | gta | aat | aag | aaa | tac | 432 |
| Asn | Lys | Tyr | Phe | Phe | Arg | Ile | Arg | Lys | Phe | Leu | Val | Asn | Lys | Lys | Tyr | |
| | | 130 | | | | | 135 | | | | | 140 | | | | |
| agt | ttc | tgt | gcc | tgg | aag | att | gtc | gtg | gtg | gaa | att | cgt | cgt | tgt | ttc | 480 |
| Ser | Phe | Cys | Ala | Trp | Lys | Ile | Val | Val | Val | Glu | Ile | Arg | Arg | Cys | Phe | |
| | 145 | | | | | 150 | | | | | 155 | | | | | |
| agt | att | ttt | tac | aaa | ctg | ctg | aac | atg | aat | taatggatcc | | | | | | 520 |
| Ser | Ile | Phe | Tyr | Lys | Leu | Leu | Asn | Met | Asn | | | | | | | |
| 160 | | | | | 165 | | | | | | | | | | | |



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|---|-----------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| tctagaaagg | aggataaca | t | atg | tgt | aac | ctg | ctg | aac | gtt | cac | ctg | cgt | 51 |
| | | | Met | Cys | Asn | Leu | Leu | Asn | Val | His | Leu | Arg | |
| | | | 1 | | | | | 5 | | | | 10 | |
| cgt gtt acc tgg caa aat ctg aga cat ctg agt agt atg agc aat tca | 99 | | | | | | | | | | | | |
| Arg Val Thr Trp Gln Asn Leu Arg His Leu Ser Ser Met Ser Asn Ser | | | | | | | | | | | | | |
| 15 20 25 | | | | | | | | | | | | | |
| ttt cct gta gaa tgt cta cga gaa aac ata gct ttt gag ttg ccc caa | 147 | | | | | | | | | | | | |
| Phe Pro Val Glu Cys Leu Arg Glu Asn Ile Ala Phe Glu Leu Pro Gln | | | | | | | | | | | | | |
| 30 35 40 | | | | | | | | | | | | | |
| gag ttc ctg caa tac acc caa cct atg aag agg gac atc aag aag gcc | 195 | | | | | | | | | | | | |
| Glu Phe Leu Gln Tyr Thr Gln Pro Met Lys Arg Asp Ile Lys Lys Ala | | | | | | | | | | | | | |
| 45 50 55 | | | | | | | | | | | | | |
| ttc tat gaa atg tcc cta cag gcc ttc aac atc ttc agc caa cac acc | 243 | | | | | | | | | | | | |
| Phe Tyr Glu Met Ser Leu Gln Ala Phe Asn Ile Phe Ser Gln His Thr | | | | | | | | | | | | | |
| 60 65 70 | | | | | | | | | | | | | |
| ttc aaa tat tgg aaa gag aga cac ctc aaa caa atc caa ata gga ctt | 291 | | | | | | | | | | | | |
| Phe Lys Tyr Trp Lys Glu Arg His Leu Lys Gln Ile Gln Ile Gly Leu | | | | | | | | | | | | | |
| 75 80 85 90 | | | | | | | | | | | | | |
| gat cag caa gca gag tac ctg aac caa tgc ttg gag gaa gac gag aat | 339 | | | | | | | | | | | | |
| Asp Gln Gln Ala Glu Tyr Leu Asn Gln Cys Leu Glu Glu Asp Glu Asn | | | | | | | | | | | | | |
| 95 100 105 | | | | | | | | | | | | | |
| gaa aat gaa gac atg aaa gaa atg aaa gag aat gag atg aaa ccc tca | 387 | | | | | | | | | | | | |
| Glu Asn Glu Asp Met Lys Glu Met Lys Glu Asn Glu Met Lys Pro Ser | | | | | | | | | | | | | |
| 110 115 120 | | | | | | | | | | | | | |
| gaa gcc agg gtc ccc cag ctg agc agc ctg gaa ctg agg aga tat ttc | 435 | | | | | | | | | | | | |
| Glu Ala Arg Val Pro Gln Leu Ser Ser Leu Glu Leu Arg Arg Tyr Phe | | | | | | | | | | | | | |
| 125 130 135 | | | | | | | | | | | | | |
| cac agg ata gac aat ttc ctg aaa gaa aag aaa tac agt gac tgt gcc | 483 | | | | | | | | | | | | |
| His Arg Ile Asp Asn Phe Leu Lys Glu Lys Lys Tyr Ser Asp Cys Ala | | | | | | | | | | | | | |
| 140 145 150 | | | | | | | | | | | | | |
| tgg gag att gtc cga gtg gaa atc cgt cgt tct ctg tac tac ttt tac | 531 | | | | | | | | | | | | |
| Trp Glu Ile Val Arg Val Glu Ile Arg Arg Ser Leu Tyr Tyr Phe Tyr | | | | | | | | | | | | | |
| 155 160 165 170 | | | | | | | | | | | | | |
| aaa ttt acc gct ctg ttc cgt cgt aaa taatggatcc | 568 | | | | | | | | | | | | |
| Lys Phe Thr Ala Leu Phe Arg Arg Lys | | | | | | | | | | | | | |
| 175 | | | | | | | | | | | | | |

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